PROMISE Vess™ R2000

PROMISE Vess R2000 Unified Storage Solution for SMBs

Golden Award 2013

- Dynamic solution optimized for video surveillance
- Unified storage streamlines administration & adds flexibility
- Designed to meet the growing challenge of unstructured data
- Cutting edge redundant, high capacity archiving solution
- Support for on demand expansion, ideal for cloud data centers
- Fibre Channel 8Gbps, iSCSI 1Gbps & 10Gbps host connect ports
- High availability dual controller design
- Supports 6Gbps & 3Gbps SAS & SATA drives simultaneously
- Scale up to 112 hard disk drives via Vess J2000 series expansion units

The Ultimate in Value, Flexibility, and Reliability

The Vess R2000's brilliant design consolidates both block and file storage onto a single platform, providing SMBs a cost-effective way to meet performance goals while simplifying administration and adding flexibility. The high availability active-active Vess R2000 is designed for data-intensive industries, including midsize to large scale surveillance installations or cloud data centers where downtime is unacceptable and where large external storage capacity, support for on-demand expansion, long retention periods, and reliable high bandwidth throughput are a must.

Optimized for Your Business Needs

The Vess R2000 conveniently allows users to select an operation mode optimized for video surveillance or for generic IT environments, delivering customized performance and expandable capacity for multiple storage requirements, including unstructured data, archiving and cloud data centers. With innovative features like Perfect Rebuild, which can reduce the time required to rebuild an array by more than 400%, the Vess R2000 delivers the performance and reliability you demand for your application.

Simplifying Management and Support

Simplicity and ease of use are absolutely crucial for SMBs with limited IT resources. The Vess R2000 is designed specifically with SMBs in mind as it features One Plug Auto Service (OPAS) to reduce maintenance complexity and streamline an easier tech support workflow. Simply plug in a USB drive and the user can retrieve information about the system for tech support, upgrade firmware, reset passwords and much more.

Going the Extra Mile to Protect Your Data

The Vess R2000's new CacheGuard Data Protection features, HDD Cache Backup and Advanced Battery Flash Backup, go that extra mile to ensure your data is safe in case of power loss. Delivering protection of HDD cache data and RAID controller write cache content beyond the standard 72 hour window, you can rest assured knowing your data is protected even when disaster strikes.

PROMISE® TECHNOLOGY, INC.

The Ultimate in Value, Flexibility, and Reliability

Unified storage that is everything it should be

System Models	Vess R2600iS/R2600iD	Vess R2600fiS/R2600fiD	Vess R2600tiS/R2600tiD	Vess R2600xiS/R2600xiD
System and Controller Features				
Form Factor	3U	3U	3U	3U
Drive Support	16 Drives (3.5")	16 Drives (3.5")	16 Drives (3.5")	16 Drives (3.5")
	SAS/SATA[1] (6Gb/s or 3Gb/s), NCQ, TCQ			
# Controllers/CPU	Single/Dual (64bit 6-core @ 1.1GHz)			
Host Connectivity per Ctrl.	4x 1Gb iSCSI	2x 8Gb FC 4x 1Gb iSCSI	2x 10Gb iSCSI (BASE-T) 4x 1Gb iSCSI	2x 10Gb iSCSI (SFP+) 4x 1Gb iSCSI
Scalability	Up to 112 drives via cascading Vess J2000 series			
Data Cache	2GB standard per controller (max. 16GB)			
NAS Features[2]				
Supported Network Protocols	CIFS (MAC, Windows), NFS (Linux/Unix), AppleTalk (MAC) ,FTP, WebDAV			
Data Services	Backup Server, Share Disk Clone, Remote Replication, Online Recovery, File Backup/Restore			
Max. Share Disk	256			
Share Disk Size/Memory	8TB/2GB , 16TB/4GB , 32TB/8G, 64TB/16GB			
Concurrent Sessions/Memory	64/2GB, 256/4GB, 512/8GB, 1024/16GB			
Max. Account/Memory	1k/2GB, 2k/4GB, 5k/8GB, 10k/16GB			
Supported Domain	Microsoft ADS, LDAP			
Max. Domain Account	50k			
Share Disk Supports	Permission Management, Quota Management, Online Expansion			
Operational Features				
RAID Levels	0, 1, 1E, 3, 5, 6, 10 (0+1), 30, 50, 60			
Supported OS	Windows 2003, 2008/2008R2, 2012/2012R2[3] RedHat Linux, SuSE Linux, Ubuntu, CentOS, VMWare ESXi 5.x, Citrix XenServer, Apple OS X[4]			
Data Protection Features	• Predictive Data Migration (PDM) • Support Online Volume Copy • Zero Penalty Cache Mirroring • PerfectRebuild™ - Reduced Rebuild Time		• Asymmetric LUN Unit Access (ALUA) • PerfectFlash™ -Non-Disruptive Image Update • Advanced Battery Flash backup	
Green Features	• Compact and Lightweight System Design • Efficient 80PLUS Certified Power Supplies • Embedded Power Consumption Module		• Full Levels of Intelligent Power Management MAID 2.0 • Energy Savings on Power Scheduling	
System Information				
AC Input	100 ~ 240 VAC, 60 ~ 50Hz			
Current (Maximum)	4A (100V); 2A (240V)			
Power Supply	Three redundant 250W (Up to Four) 90-264V full-ranging w/PFC, Hot swappable N+1 Design			
FAN	Hot swappable redundant design with battery backup module			
Temperature	5° ~ 40°C[5] (-40° ~ 60°C non operational)			
Relative Humidity	10% to 80% non-condensing			
Dimensions (H x W x D)	131 x 447 x 507 mm 5.1 x 17.6 x 20 in			
Weight	20.1 kg (44.3 lbs) w/o drives 31.3 kg (69 lbs) w/ drives			
EMC/ Safety	CE, FCC Class A, VCCI, BSMI, CB, KCC, C-Tick, UL/cUL			
Warranty and Support				
Warranty	3 years limited warranty[6]			
Supported Hardware Options	Flash Module, 8Gb SFP Optical Transceiver, SAS Cable, 3G SATA AA-Mux Adapter, 6G SAS-to-SATA Interposer Adapter, 10Gb SFP+ Optical Transceiver			

[1]Additional AA-Mux adapter is required when use with SATA 3G drive, while SATA 6G drive requires 6G SAS-to-SATA Interposer adapter
[2]To obtain optimal NAS operations, it is highly recommended to use at least 8GB data cache per controller
[3]Microsoft® WHQL for Windows Server 2003, 2008/2008R2 and 2012/2012R2
[4]Support file-level AFP protocol and Time Machine Backup
[5]Operational Temperature between 5° ~ 35°C if BBU installed or use 15K-RPM SAS HDDs
[6]BBU is covered by one year limited warranty

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